



CaIMAN

Setup Guide

VMware Fusion

Rev. 1.1

Introduction

CalMAN calibration software can be run under Microsoft Windows® within a VMware Fusion virtual machine, on a Mac or Linux computer. This enables CalMAN to be used to calibrate external video displays and monitors with the same functionality as if CalMAN were installed on a dedicated Windows PC.

Also, any calibration of the host Mac computer that could be performed from CalMAN installed on a remote dedicated Windows PC can be performed from CalMAN installed on a Windows virtual machine, within VMware Fusion on the host Mac or Linux computer.

CalMAN Required Version

- 5.2.0 or newer

VMware Fusion Version

- VMware Fusion 6 or newer recommended
- VMware Fusion 10 required for macOS High Sierra (10.13.0)

Note: CalMAN can also be run in a Parallels virtual machine, but due to occasional USB device driver issues, Parallels is not currently recommended.

VMware Fusion configuration

To optimize VMware Fusion for CalMAN with a Windows 7/8/10 virtual machine.

1. Close Windows in the Fusion virtual machine (Start, Shut down).
2. Click the **VMware Settings** button (wrench icon) at the top of the Fusion screen to open the **Settings** dialog (Figure 1).



Figure 1. VMware Settings dialog.

On the Fusion Settings dialog:

1. Click **Processors & Memory**.
 - Select one-half the total number of available processor cores. This leaves half of the processor cores available to the Mac side to handle the IO and GPU.
 - Select at least half of the available RAM, with a minimum of 4 GB (4000 MB).
 - Under the **Advanced Options**, disable all options.
2. Click **Display**.
 - Set **Accelerate 3D Graphics** to ON.
3. Click **Network Adapter**.
 - Under **Bridged Networking**, select Autodetect.
4. Click **Hard Disk**.

- Make your virtual disks a fixed size, not auto sized (avoids auto sizing performance penalty).

Note: When using a Bootcamp virtual machine, the disk is always a fixed size.

On the main Fusion screen:

1. Click the **Play** button to start Windows in the Fusion virtual machine.
2. Connect any hardware USB calibration device(s) to the Mac computer.

On the Fusion Settings dialog:

1. Click **USB & Bluetooth**.
 - Under **Connect USB Devices**, check the box for each USB device you wish to connect to Windows.
 - For those same USB devices, under **Plug In Action**, select **Connect to Windows**.
 - Under **Advanced USB Options / USB Compatibility**, select **USB 2.0**.

Additional Notes

1. To allow external IP connections from CalMAN, disable any Windows firewall on the CalMAN virtual Windows machine. A firewall should be enabled, however, on the host computer (Mac or Linux OS).
2. After you have the Windows virtual machine properly configured, you may wish to save a snapshot of the virtual machine configuration. To do this, click the *Snapshots* button on the Fusion Virtual Machine Library page.
3. When you wish to connect CalMAN to Client 3 that is installed on the host Mac computer, or on another computer that you wish to calibrate, be sure that you don't accidentally connect to Client 3 within the Windows virtual machine.

To avoid this mistake, Client 3 should not be installed on the Windows virtual machine.

About Portrait Displays

Portrait Displays, Inc., since 1993, is a leading application software provider (ASP) for PC, smartphone, and tablet displays. The Portrait Displays team now includes **SpectraCal**, the world's leading provider of video display calibration software. The combined companies offer value-added, feature-rich solutions to both OEM display manufacturers and end users seeking improved accuracy and manageability of their displays.

Portrait Displays, an Intel Capital Portfolio company, is a private corporation with headquarters in Pleasanton, California, USA with representatives in Europe, Taiwan, China, Japan, and Korea.

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